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on Pathology Definⁿ of it 15.

on the Uses of Dissections. 5

Definition of Disease. 15.

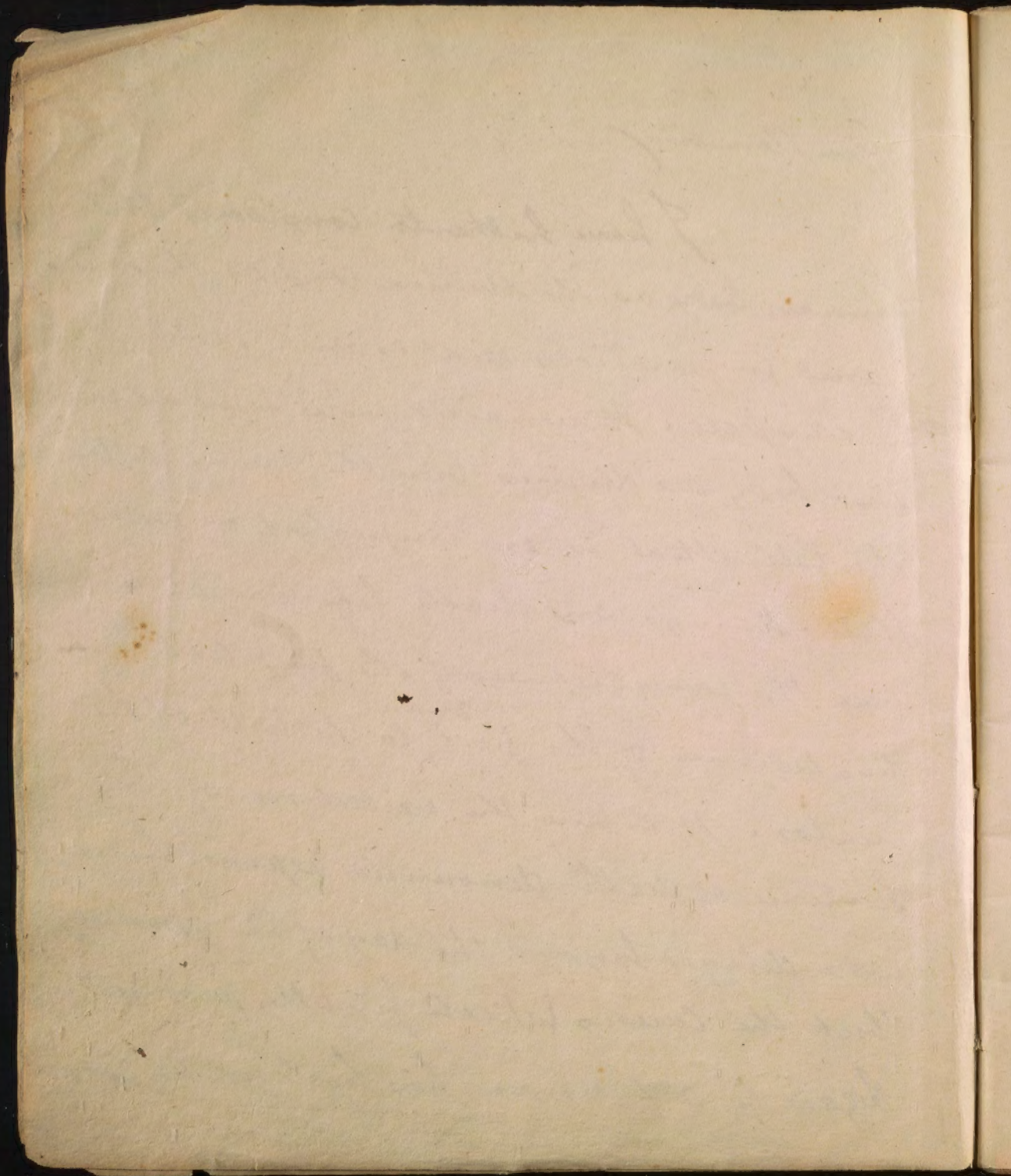
Causes of Disease ——— ibid

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1
Gentlemen

I have hitherto considered the human body as the divines consider the human mind in paradise, that is in a perfect or healthy state. It remains now that we view this body as divines view the mind after the fall, that is in an imperfect or diseased state. Sickness and death like moral evil were the consequences of the first act of the disobedience of the first ^{man} to the will of his creator. It is true the execution of the sentence of death denounced against him, was delayed beyond the day of his apostasy, but the causes which finally produced it began to act upon his system as soon



he lost ~~his~~ image of his maker. Every
 element in nature took part with his
 offended creator, and conspired to destroy his
 life. Their operation for a while was full
 and slow. - hence we read that men for
 2000 years after the fall, attained to the great
 age of nearly a thousand years. It was
 not for sometime after the deluge that
 the life of man was contracted to its pre-
 sent limits. many causes concurred to
 produce this change in the duration of
 human life. One of the most powerful
 has been the influence of the deluge upon
 the surface of the earth, & the temperature
 and quality of the atmosphere; but
 other causes seem to have combined with

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it, for not only the earth & Air, But the
Sea - all our Aliments and Drinks - all
our occupations & pursuits - insects and
reptiles - wild and Domestic Animals,
our own malignant passions, may
even our very pleasures all seem to have
to have taken part with the offended
Majesty ^{of heaven}, and to have conspired to destroy
the life of man. That life is the effect of
impressions, and preserved only by the
moderate degree of them, or by counter-
-acting Stimuli ~~so~~ is no less consonant
to Religion, than to true philosophy. It
would seem as if life ^{were} ~~was~~ the offspring of
a constant strife, and ^{that} it owed its existence
for 10, 20, 50 & even an 100 years

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Wholly to the ^{success} ~~temporary~~ victories of the
stimuli enumerated in the lectures upon
animal life, over the causes which con-
-spire to extinguish it.

In entering upon the history of the nu-
-merous & distressing diseases to which the
human body & mind are exposed, let us
not arraign the divine Goodness nor suppose
the benevolent Father of the human race de-
-lights in the ^{pain or sickness} ~~existence~~ of his creatures. ~~This~~
~~is~~ This is so far from being the case, that
they are both blessings in disguise, and in
the present imperfect state of human nature
are absolutely necessary to individual and
general happiness. To console ^{us} ~~you~~ under
the melancholy view of human misery

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which I am about to lay before you,
I shall briefly mention the kind, and
important uses which diseases are pro-
bably intended to answer in the present
state of the ~~more~~ world.

1 Diseases lead us to the study of Anatomy,
whereby we are led to admire the infinite
wisdom & goodness of the Supreme Being
discovered in the structure of the human
body. Without such objects as the removal
of diseases, and the preservation of health,
who would ever handle a dissecting knife
or enter an anatomical ~~lecture~~ theatre?

~~The senses ^{and} cease to render them better
disagreeable, and nothing but duty, and ha-
bit without the objects all the wisdom~~
And unless this were done,



and goodness of the Supreme Being disclosed
in the structure of the human body would
have ^{would have} perished upon it in vain, and perished
~~it~~ with it when it descended into the
grave.

2 Diseases have been the means of impelling
us to the study not only of the ^{structure} ~~anatomy~~
of the human body, but of all other
animals in order to discover the uses
of every part of them, ^{many of which would} ~~that~~ knowledge thus
obtained, has been called Physiology. Much
as we derive from ~~books~~ the examination
of dead bodies, whether those of our species
or ~~books~~ dumb animals, ~~its functions~~ ^{have}
of the ~~functions~~ ^{of both worlds} never been
known to us had they ~~they~~ not been
discovered by ~~ascertaining~~ the effects of



diseases upon them.

3 Diseases have led us to study the works of the Creator in the Vegetable, mineral and Animal Kingdoms. It is true many of the wants of man in civilized society have impelled him to explore the wilderness and bowels of the earth, but how few discoveries have those wants ^{produced} ~~made~~ in the ~~study of~~ ^{natural history and chemistry} ~~the study of~~ compared with the more powerful motive of obtaining relief from sickness and pain.

by imposing constant study
4 Diseases ~~for which the physician is~~
and attention ~~is~~ in search of their
~~causes and symptoms~~
~~causes, seats, symp-~~
-toms and remedies, contribute very much
to improve and extend the intellectual
faculties of the mind.



5 Without Discons, ⁶ the exercise of the
~~the most human~~
moral virtues, particularly of humanity
and benevolence would have been very
much limited in their operations. How
small are the distresses of poverty when
unaccompanied with sickness! — It is
in Hospitals & Dispensaries in which
Charity finds the most ample & constant
employment, and in which man is
permitted to become in the most eminent
degree
the deputy of that Attribute of the Deity
which delights in the relief of human
misery.

6 The human body & mind are so formed
that contrast is necessary to their pleasures &
happiness. The ~~serene~~ serene & temperate
weather of June, is rendered more pleasant by



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recollecting the cold & storms of winter - the
morning light, chess us most when it has
succeeded a ~~right~~ long night of darkness;
- Opportunity under ~~beauty~~ ^{beauty} more captivating,
and the evils of error & vice ~~under~~ ^{enhance} the
charms of truth & virtue. In like man-
-ner ^{a proper wish for} the inestimable blessing of health ^{is} & de-
-rived ~~its principal~~ ^{chiefly from} ~~the dread of~~ ^{being} its
having been preceded, ~~by the dread of~~
its being followed by sickness & pain.

7 Did we relinquish our present comfortable
residence in this world in the full enjoyment
of health, and of all the blessings that are
connected with it, death would be terrible to
us in prospect, beyond the possibility of en-
-doring it; but diseases are kindly sent to
reconcile us to death, nay more in some
instances to render it the first object of our

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wishes. But

by Diseases not only reconcile us to our own deaths, but the pains & sufferings they create in our dearest friends, reconcile us to their deaths likewise, and sometimes cause us to look ^{for} with solicitude, and to welcome the moment which ~~shall~~ by terminating their present ^{sufferings} shall put an end to their misery. physical influence.

9 By the ~~operation~~ of Diseases upon the moral faculties, they conduce very much to ~~improve~~ improve our virtues and to form in us habits of moral order. & ~~goodness~~ ^{goodness}. The virtue ~~produced~~ produced by these means is of a passive nature, and this has always been considered as more estimable in the light of God & man ^{than} ~~that~~ that which is simply active. "It is not so much a sign



of a great many (says Wm Penn) to do great things ^{things} with ^{with} ~~as it is to suffer great trials with hope~~
~~stagnation and resignation~~ resignation and
fortitude. Thousands of thousands ~~have~~ of
people have ~~acquired~~ acquired this papine virtue
by the sufferings of a dangerous acute, or
chronic disease. ^{combined} ~~the~~ ^{the}

chronic disease. combined
 10th ~~Voluntary~~. We have hitherto mentioned the
~~effects~~ ^{effects} of disease & pain, but pain alone
 has many advantages connected with it.
~~It is probably one of the first impressions~~
~~upon the body in the production of life.~~
 It informs us in many cases of the seat
 of diseases, - it is ~~the~~ one of their principal
 signs, and when it occurs in their early
 stage, it ~~is~~ disposes sick people to desist
 from their ^{ordinary} pursuits, and to seek by rest,
 or medical aid for relief. ~~It~~ It imparts

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vigor & activity to the mind, and in the
 last place it is a remedy for many
 diseases. ^{The universal} ~~this is evident~~ practice of man
 has always done ^{kind} ~~the~~ homage to ~~the~~ pain in certain
 circumstances of the system. We are
 too disposed to suspect a child is ~~is~~ dead,
~~we in great degree of death~~ when it does
 not utter signs of pain ~~and we are too~~ ^{from the first insidious of the air upon}
 its lungs & skin, and we are ~~too~~ ^{dis-} ~~express~~
 -triped when our friends cease to ~~express~~
 their pain by groans or tossings in their
 beds in the critical and dangerous state
 of their diseases. But the beneficial effects
 of pain are best seen in the mortality
 of those diseases which come on without
 it, such as Consumptions, Cancers,
 chronic inflammation of the liver &
 frozen limbs. In the last, ~~the~~ we are

V I have thus far spoken of the benefits we
derive from what are called acquired diseases
only; but the body derives great benefit
from what I have called natural ~~or what might be called "healthy" diseases.~~
~~These are~~ These are Sleep - Hunger - Thirst - Men-
-struation - pregnancy and parturition. They
~~help to~~ the latter are necessary to give the
first impulses to life - the former are
necessary to preserve it. In short the
body is kept alive as certainly by those
diseases, as it is by ~~the~~ ^{by} the constant in-
-halation of air, and ^{by} the daily use of
Aliment. - But ^{and lastly} even acquired diseases
~~where they are of an acute nature often~~
~~carry off~~ carry off habitual or chronic diseases, &
sometimes destroy the predisposition to
them. The plague, and yellow fever
have often in this way added years ^{to}
of ~~the~~ ^{the} life and health ~~to~~ ^{to}
of persons previously ~~of the~~ the most
delicate constitutions, and who were often

told in some northern countries, the
toes are destroyed without the patient feeling
any pain, and the cold thereby permitted to
affect the whole body with disease & death.

V. In entering upon this part of my
course I am left with fewer ^{aids} resources
from my predecessors, ~~than~~ from any
of the branches of medicine. Dr Boerhaave
began a system of pathology, but left it
in an imperfect state. Dr Haller and Dr
Hoffmann's works abound with excellent
pathological remarks, but they are
without order or principles. Dr Quain
has given us an ^{extensive} ~~complete~~ system of
pathology, but it founded so exclusively
upon the humoral pathology of his

= in disorder with subtle but dangerous diseases.
The healthy diseases may be compared to the ^{daily} ~~constant~~
Variations in the temperature and motions of
the Air \pm see below

~~of the benefits we derive from~~
If I have thus far spoken ~~only~~ of what
may be called acquired diseases only, but the
^{body} ~~man~~ derives great benefits from what I have
called natural or vital diseases such as sleep,
hunger, thirst, ^{menstruation} pregnancy & parturition.

~~They are necessary to originate as well as~~
~~to preserve the life of the human body.~~
~~to preserve our existence. In short we~~
~~the body is~~
~~are kept alive by these diseases as certainly~~
~~by as we are by the Air we breathe, and~~
~~by our daily Aliment.~~

~~which preserve its purity & healthiness,~~
While the acquired diseases resemble ruin-
=ances which with all the terror & desolati-
=on they spread thro' a country, even &
then chase away Epidemics, & cure
old ~~and~~ diseases which had long eluded the
power of medicine.

master D Boerhaave, and with all is so
obscure that ~~little~~^{no} assistance can be derived
from it ~~in ^{teaching pathology} ~~deriving pathology~~~~ that
will accord with the principles I purport
to deliver in this part of our Course.

In the wilderness that is before me
I venture therefore ~~alone~~^{alone and with trembling}
~~steps~~^{steps}. The stars by night, and the
Course of the ~~river~~^{by} streams of water shall
day, or in other words, facts as real & as
unchangeable as ~~the stars & streams of water~~^{the stars & streams of water} shall be
my only guides in my attempt to ~~find~~^{travel}
through it. Should I be seduced for a moment
by any thing that shall counterfeit those
great & certain marks, I sincerely hope
you may ^{at} once detect my error, and
refuse to follow me.



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By Pathology I mean that Science which
treats of the causes, ^{effects,} seats & signs of dis-
eases.

There have been many definitions of
Disease. ~~There~~ The least exceptionable
of any that I have met with is that
which Dr Sydenham has rejected in the
preface to his works. It is as follows.

"Disease consists in the Confused & irregu-
lar operations of disordered & debilitated
nature." You will I hope see the

~~truth and propriety of this definition~~
truth and propriety of this definition
when I come to deliver the history of
the causes & phenomena of diseases. It
embraces the functions of both body and mind.

The Causes of diseases have been
divided into remote, predisposing, occa-
sional, ^{or exciting,} and proximate.



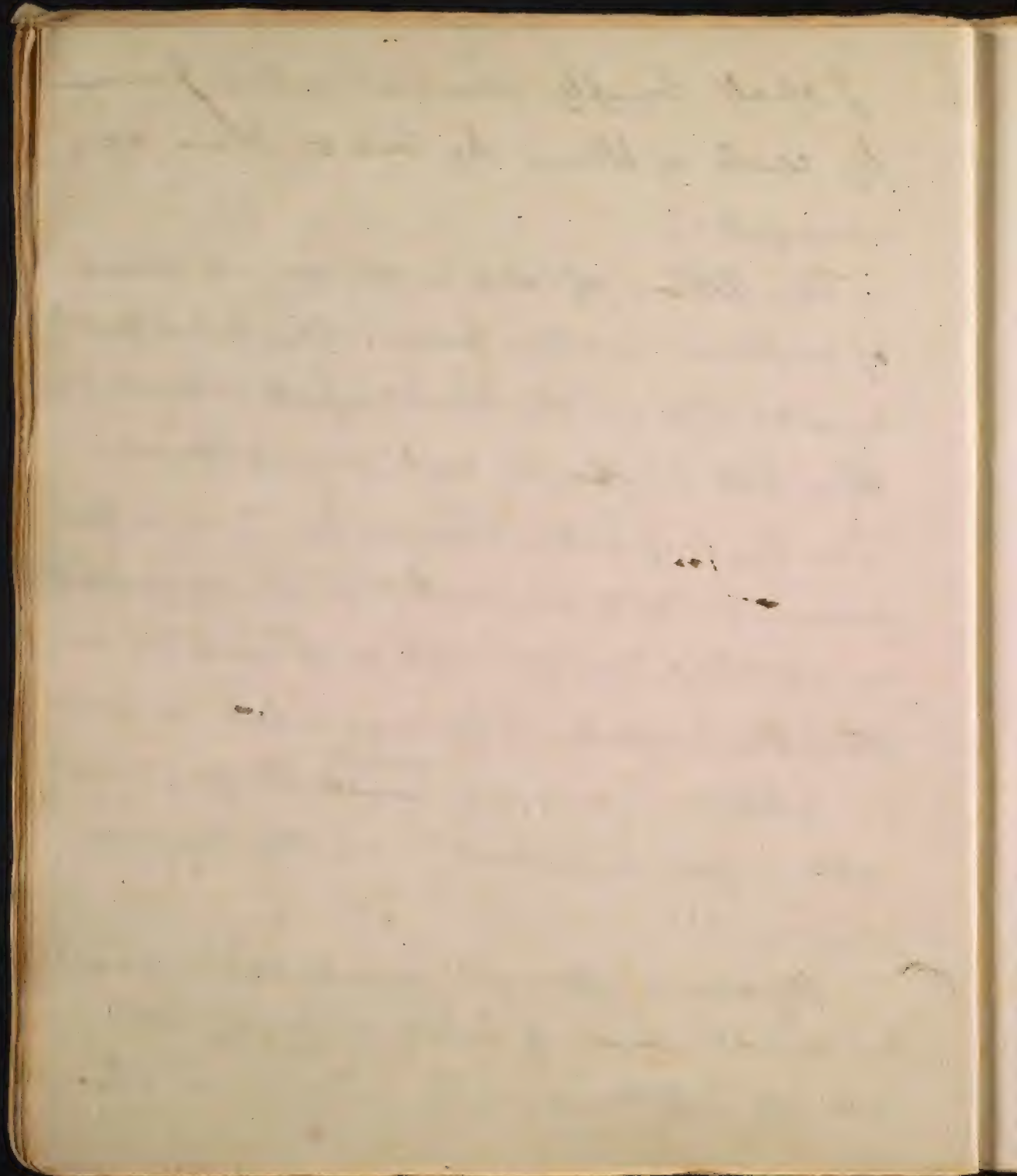
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I shall briefly illustrate what I mean
by each of them by two or three ex-
-amples.

The Action of Cold is the remote cause
of inflammatory fever. The debility &
excitability in the blood vessels induced by
this Cold is ~~the~~ its predisposing cause.

The heat of a the Vernal Sun, or a stone
room, or of a warm bed is its occasional
or exciting cause, and a Convulsion in
the blood vessels its proximate cause
by which I mean ^{what} ~~with~~ Dr Gambier
calls "ipoc morbus," or the disease
itself.

Again - Marsh exhalations are
the remote cause of bilious fever, the
debility and excitability induced ^{by them} in the



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blood vessels are its predisposing cause -
- a fright - fatigue - ^{or} an intemperate meal
is its exciting cause, - and its proximate
^{cause is a} ~~convulsion~~ convulsion in the blood vessels &
Disease in some of its forms in the ~~causes~~
~~of the~~ stomach and bowels.

Lastly. - Intemperance is the remote
cause of Gout - the debility & excitability in-
duced ⁱⁿ by ~~the~~ ~~by~~ every part of the system
being overstimulated by the excess ⁱⁿ ~~of~~
eating & drinking is its predisposing
cause, - Fatigue, watching, or a ^{an} ~~Drinking~~
~~of~~ article of indigestible Aliment, is its
exciting or occasional cause, & a Convul-
sion in the blood vessels or a Spasm in
the stomach, are its proximate cause,
or the Gout itself. -



You are not to suppose that ~~all these~~
 concurrence of the remote, - predisposing
 & exciting causes, ^{like} ~~as~~ distinct links of a
 chain are necessary to produce each of
 those diseases. By no means. Lots may
 become at once the remote - predisposing
 & exciting cause of an inflammatory
 fever. Miasmata may become at
 once the remote - predisposing & exciting
 cause of a bilious fever. & a ^{bit of} ~~small~~
 intoxication may become both the
 remote - ~~exist~~ predisposing & exciting cause
 of a paroxysm of Gout.

But further, - there are diseases in
 which ~~but~~ two of the causes prior to
 the proximate, ^{are constantly united,} ~~are ever connected.~~

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For example 19 is at all times both a
Thorn, a nail in the foot, ~~is~~ the remote
& existing cause of Tetanus; and the poison
Cause of ~~good~~ - debility & excitability ~~are~~
of a rabid animal, as also the variolous
~~the muscles, its predisposing, & consecutive~~
~~action in the vessels its proximate~~
Matter are at all times both the remote
& existing causes in the former case of
Hydrophobia, & in the latter of the small
pox. —

Once more, there are cases in which
the remote ~~cause~~ becomes at once the
predisposing, & existing Cause ~~to~~
completely united ~~and~~ in the production
of disease. Thus the exhalations from
a hoghead of putrid river water ~~to~~ ^{because}
produced death in a number of sailors at

Rochfort without the apparent inta-
-vention of debility, predisposing debility

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20.

the Aid
or ~~as existing~~ of ~~a~~ ^{the} additional stimulus
of an exciting cause.

I have delivered these definitions
& explanations of the causes of diseases
in conformity to the practice of the old
schools of medicine. They will be resumed
in another form ^{and with some amplification} in our history of the

phenomena & formation of disease,
which will be the next object of our
attention. For this purpose I shall ^{first}
deliver & endeavour to demonstrate a
few general propositions.





















